File: In Bacharo Lehrer Co.

OFFICE MEMO

4400

ATTN: Bob Glebs

FROM:

Terrence Gardon

SUBJECT:

20th Street Leachate Seep, City of Kaukauna

On July 15, 1977 Soil Testing Services submitted a report on the leachate seep north of the Lehrer landfill in the City of Kaukauna. The report recommended that additional study be done in the area. On December 5, 1977 Soil Testing submitted the final report on the seep to our office. Following is a summary of the conclusions drawn and the District recommendations concerning the seep.

Ground water flow is in a northeast direction away from Lehrer landfill and toward the leachate seep.

An uncontrolled fill exists beneath the 20th Street area.

Water quality decreases with increasing distance from the Lehrer landfill.

The seep does not originate at the low point of the ravine but down slope from a culvert beneath 20th Street.

If leachate were escaping from the Lehrer landfill the flow would be channelized through the uncontrolled fill. Based upon STS's uniform flow data leachate could not have travelled through the fill material during this time period. (3 years)

In conclusion the evidence indicates that the source of the seep is probably a result of the infiltration of surface water into the uncontrolled fill beneath 20th Street. If leachate were escaping from the Lehrer landfill water quality near the site would show greater contamination. The report seems to indicate that a channelized flow of leachate from Lehrer landfill through the uncontrolled fill is possible although the water quality data does not reflect this. If this channelized theory were the case one would expect the water quality of the seep to be similar to the water quality near the Lehrer fill.

Since the surface drainage off of Lehrer landfill has been diverted to the east toward Kankapot Creek and the depression at the head of the culvert backfilled, the District recommends that no action be taken on the seep until late spring 1978. If the leachate seep still persists at this time a cutoff trench should be dug along the north cells of the Lehrer landfill to determine once and for all if channelization of the leachate through the 20th Street fill is occurring. If channelization is occurring the trench should then be backfilled with clay to create a clay cutoff wall. If channelization is not occurring steps should be taken to prevent the infiltration of surface water into the 20th Street

fill. This may eventually lead to plugging the culvert or removing it altogether. The responsibility for having this work done would have to be decided between the City of Kaukauna and James Lehrer. The District feels that the installation of additional wells or soil borings in the area would not conclusively determine the source of the leachate seep as the cutoff trench would.

Terry Gardon

TG:sh

SOIL TESTING SERVICES OF WISCONSIN, INC. CONSULTING SOIL & FOUNDATION ENGINEERS 540 LAMBEAU ST., GREEN BAY, WIS. 54303

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PHONE: (414) 494-9656

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JOHN P. GNAEDINGER, P.E. CLYDE N. BAKER, JR., P.E. WILLIAM M. PERPICH, P.E. WILLIAM C. KWASNY, P.F.

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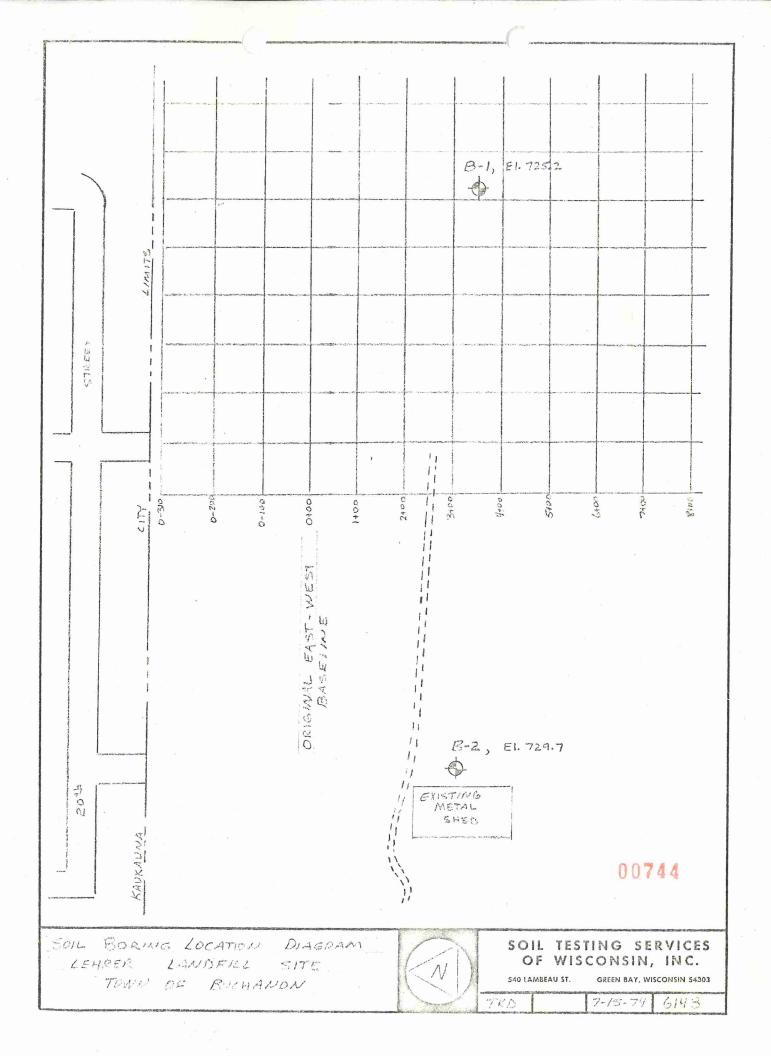
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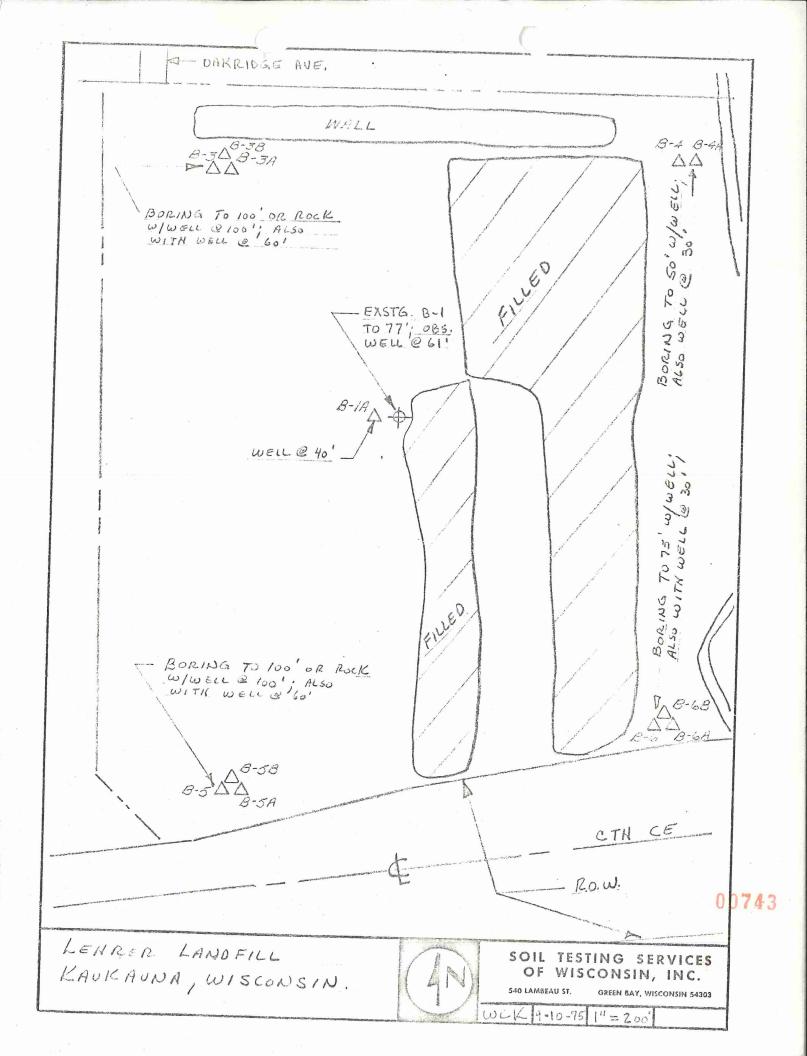
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| Remarkscc: | Department of Natural Resources | | |
| | P. O. Box 450 | · · · · · · · · · · · · · · · · · · · | |
| lu lu | Madison, Wisconsin 53701 | | |
| | Attn: Mr. Bob Glebs | | |
| | Varia Andr | | |
| | Yours truly, | | |

Timothy K. Dahlstrand

Registered Professional Engineer, Wisconsin
INSPECTION ENGINEERING ANALYSES AND REPORTS

SOIL TESTING SERVICES OF WISCONSIN, INC.





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The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

LOG OF BORING NO. OWNER ARCHITECT-ENGINEER Harris and Associates SITE Highway 55 and CTH EE PROJECT NAME Kaukauna, Wisconsin Proposed Lehrer Landfill UNCONFINED COMPRESSIVE STRENGTH TONS/FT. SAMPLE ¥ε DESCRIPTION OF MATERIAL UNIT DRY LBS./FT. LIQUID PLASTIC WATER LIMIT % CONTENT % LIMIT % SAMPLE -0-TYPE STANDARD "N" PENETRATION (BLOWS/FT.) SURFACE ELEVATION 7 Reddish brown to brown silty clay with trace to some roots, ST 0 trace gravel-very tough to hard-(CL) 3 ST Reddish brown silty clay with trace gravel-tough to hard-(CL) 4 ST 0 5 ST 0 0 0* 7 ST 0 Reddish brown silty clay with trace to some organics-tough to very tough-(CL) -20 8 ST 9 ST Δ 10 ST 35 11 ST 40 12 ST 0 45 13 ST 50 Varved reddish brown to gray brown clay and silt-tough 14 ST to very tough-(CL & ML) -55 15 ST 0 60 16 ST || 65 17 ST 0 -Δ 70 18 ST Gray to gray brown silty clay with trace gravel-tough-(CL) 19 ST | | | | 80 20 ST 85 21 ST 88 Continued WATER LEVEL OBSERVATIONS BORING STARTED 12-10-75 W.L. 26.0' WD SOIL TESTING SERVICES BORING COMPLETED 12-10-75 MAN BS B.C.R. A.C.R. **FOREMAN** RIG OF WIS., INC. KO W.L. Bailed to 96.0' from top of PVC 540 LAMBEAU STREET DRAWN APPROVED GREEN BAY, WIS. 54303 6148 A JOB # SHEET Lof 2 The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

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LOG OF BORING NO. ARCHITECT-ENGINEER OWNER Harris and Associates PROJECT NAME Highway 55 and CTH EE Kaukauna, Wisconsin Proposed Lehrer Landfill UNCONFINED COMPRESSIVE STRENGTH TONS/FT.2 SAMPLE ¥ε SAMPLE DIST DESCRIPTION OF MATERIAL UNIT DRY 1 LBS./FT. PLASTIC LIMIT % X-- - -WATER CONTENT % LIQUID LIMIT % --**0**-----TYPE (STANDARD "N" PENETRATION (BLOWS/FT.) SURFACE ELEVATION 7 No soil sampling-installed well point at 70.0 feet 35 40 45 50 60 65 70 End of Boring WATER LEVEL OBSERVATIONS BORING STARTED 12-15-75 SOIL TESTING SERVICES BORING COMPLETED W.L. 12-15-75 231 WD A.C.R. RIG FOREMAN W.L B.C.R. OF WIS., INC. APPROVED 540 LAMBEAU STREET DRAWN Bailed to 69.0' from top of PVC GREEN BAY, WIS. 54303 6148 A JOB # SHEET The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

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LOG OF BORING NO. OWNER ARCHITECT-ENGINEER Harris and Associates PROJECT NAME SITE Highway 55 and CTH EE Proposed Lehrer Landfill Kaukauna, Wisconsin UNCONFINED COMPRESSIVE STRENGTH TONS/FT.2 Žε SAMPLE DESCRIPTION OF MATERIAL UNIT DRY LBS./FT. rioino. WATER LIMIT % CONTENT % LIMIT % SAMPLE STANDARD "N" PENETRATION (BLOWS/FT.) SURFACE ELEVATION Brown sandy topsoil-hard-(SC) Brown silty clay with trace to some sand and gravel-very tough ST ST 3 0 4 112 Red brown silty clay with trace gravel-tough-(CL) 0 5 ST 10 Brown clayey silt with trace sand and gravel-hard-(ML) 113 118 Ø STIII Brown silty clay with trace gravel-soft to tough-(CL-CH) 0 -🛆 8 | sт||Ц 25 106 9 ST Red brown silty clay with trace gravel and woody fibers-very tough to hard-(CL) 10 | sт||Ш 0 ø 11 | ST||| Red brown silty clay with occasional silt seams-hard-(CL) 40 2 | ST 45 13 ST 14 | ST 55 ST | 60 Varved red brown clay and gray brown silt 1/4" to 1.0" in 16 ST thickness-tough to very tough-(CL & ML) 65 0 17 | ST∭∭ 70 -△ 0 18 ST 1* O. ST 19 80 ST 20 85 Gray brown silty clay with trace to some gravel and occasional ST 21 seams of red clay-tough-(CL) -🛆 **®** – 92 22 ST *Calibrated Renetromete End of Boring Observation well installed at 90.0' WATER LEVEL OBSERVATIONS BORING STARTED 12-18-75 SOIL TESTING SERVICES BORING COMPLETED 12-22-75 W.L A.C.R. FOREMAN W.L B.C.R. RIG OF WIS., INC. BS APPROVED WΙ TKD 540 LAMBEAU STREET DRAWN GREEN BAY, WIS. 54303 6148 A SHEET 1 of 1 JOB # The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

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LOG OF BORING NO. OWNER ARCHITECT-ENGINEER Harris and Associates Highway 55 and CTH EE Kaukauna, Wisconsin PROJECT NAME SITE Proposed Lehrer Landfill UNCONFINED COMPRESSIVE STRENGTH TONS/FT. SAMPLE ×κ DEPTH ELEVATION DESCRIPTION OF MATERIAL NO. UNIT DRY 1 LBS./FT. PLASTIC LIMIT % WATER LIQUID CONTENT % LIMIT % SAMPLE $---\Delta$ -0---TYPE STANDARD "N" PENETRATION (BLOWS/FT.) SURFACE ELEVATION 10 No soil sampling well point installed at 70.0 feet 15 20 25 30 45 50 60 65 70 End of Boring Obstruction at 66.0 feet WATER LEVEL OBSERVATIONS BORING STARTED 12-16-75 SOIL TESTING SERVICES BORING COMPLETED W.L 12-18-75 19.0' WD B.C.R. A.C.R. FOREMAN RIG BS W.L OF WIS., INC. 540 LAMBEAU STREET GREEN BAY, WIS. 54303 63.1' after bailing DRAWN APPROVED TKD W.L JOB # 6148 A SHEET The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

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LOG OF BORING NO. OWNER ARCHITECT-ENGINEER Harris and Associates PROJECT NAME SITE Highway 55 and CTH EE Proposed Lehrer Landfill Kaukauna, Wisconsin UNCONFINED COMPRESSIVE STRENGTH TONS/FT.2 MΥ SAMPLE DESCRIPTION OF MATERIAL UNIT DRY LBS./FT. WATER LIQUID CONTENT % LIMIT % PLASTIC LIMIT % -0- -- −∆ STANDARD "N" PENETRATION (BLOWS/FT.) SURFACE ELEVATION Red brown to brown silty clay with trace to some sand and gravel and with trace to some roots, woody fibers and black peaty pockets-possibly fill material-soft to very tough-(CL) 4 ST 5 ST 6 ST 7 ST O Irregularly varved red brown clay and gray brown silt with trace gravel-tough-(CL-ML) ST Ö, 9 ST Brown silty clay with trace to some gravel in the form of limestone pieces-trace to some cobbles and boulders-tough-(CL) 11 ST 11 II 0 40 12 57 REFUSAL BOULDER 31 45 8 13 55 14 55 Brown silty clay with trace to some sand, gravel, cobbles and boulders-hard-(GC) 55 15 SS Weathered broken limestone 60 16 SS RB 65.5 *Calibrated Penetrometer End of Boring 61' of NX casing Boulders or obstructions from 43' to end of boring Observation well installed at 64.5' 0073 BORING STARTED WATER LEVEL OBSERVATIONS 12-23-75 SOIL TESTING SERVICES W.L. 10.0' WS BORING COMPLETED 12-23-75 A.C.R. FOREMAN W.L. 5.01 B.C.R. 5.01 RIG OF WIS., INC. BS 27.0' AB APPROVED 540 LAMBEAU STREET DRAWN TKD K0 GREEN BAY, WIS. 54303 6148 A JOB # SHEET Bailed to 27.0' from top of PVC The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

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| | top of PVC | | | | | The stratification lines | | nes represent the approximate boundary and the transition may be gradual. | | ry | | | | |